

WHAT IS CLAIMED IS:

1. A two view display comprising: a display device comprising first pixels and
5 second pixels arranged as rows and columns with said first pixels alternating with said
second pixels in said rows and in said columns; a parallax optic comprising rows and
columns of parallax elements with each said parallax element cooperating with at least
one of said first pixels and at least one of said second pixels in a same row as and next
to said at least one of said first pixels so as to direct light from said first and second
10 pixels to first and second viewing regions, respectively, each said row of said parallax
elements being offset in a row direction with respect to each adjacent said row by half a
pitch in said row direction of said parallax elements; and a controller for supplying
image data for first and second views to said first and second pixels, respectively.
- 15 2. A display as claimed in claim 1, in which said parallax optic comprises a
parallax barrier defining a plurality of slits constituting said parallax elements.
3. A display as claimed in claim 1, in which said display device comprises a spatial
light modulator.
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4. A display as claimed in claim 3, in which said modulator is a light-attenuating
modulator.
5. A display as claimed in claim 4, in which said modulator is a liquid crystal
25 device.
6. A display as claimed in claim 1, in which said parallax optic is disposed between
said display device and said viewing regions and said pitch in said row direction of said
parallax elements is sufficiently less than twice a pitch in said row direction of said
30 pixels to provide viewpoint correction.
7. A display as claimed in claim 1, in which said display device is disposed
between said parallax optic and said viewing regions and said pitch in said row

direction of said parallax elements is sufficiently greater than twice a pitch in said row direction of said pixels to provide viewpoint correction.

8. A display as claimed in claim 1, in which said pixels are arranged as sets of red,
5 green and blue pixels forming composite colour pixels.
9. A display as claimed claim 1, in which said first and second views comprise images which are unrelated to each other.
- 10 10. A display as claimed in claim 1, in which said first and second views comprise a stereoscopic pair.